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THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/649,337
Applicant : Thomas A. Hillerich, Jr.
Filed : August 27, 2003
TC/A.U. : 3652
Examiner : To be assigned

Docket No. : 2662-155
Customer No. : 06449
Confirmation No. : 4608

INFORMATION DISCLOSURE STATEMENT

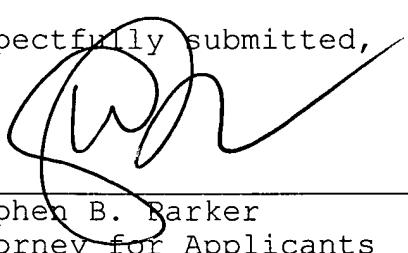
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Under the provisions of 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants submit herewith information that the Office may wish to consider in examination of the subject application. Materials submitted for consideration are listed on the attached form PTO-1449.

Respectfully submitted,

By


Stephen B. Barker
Attorney for Applicants
Registration No. 36,631
ROTHWELL, FIGG, ERNST & MANBECK, p.c.
Suite 800, 1425 K Street, N.W.
Washington, D.C. 20005
Telephone: (202) 783-6040

<p style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p style="text-align: center;">NOV 03 2004 JC25</p>				Complete if Known			
				Application Number		10/649,337	
				Filing Date		August 27, 2003	
				First Named Inventor		Thomas A. Hillerich, Jr.	
				Group Art Unit		3652	
				Examiner Name		To be assigned	
Sheet	1	of	6	Attorney Docket Number 2662-155			
U.S. PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document		Date of Publication of Cited Document MM-DD-YYYY	
		Number	Kind Code ² (if known)				
A	4,446,962			Burkhardt		May 8, 1984	
B	4,509,635			Emsley et al.		April 9, 1985	
C	4,699,277			Baxter		October 13, 1987	
D	4,725,182			Sakamoto et al.		February 16, 1988	
E	4,730,730			Clarkson		March 15, 1988	
F	4,757,985			Hamant et al.		July 19, 1988	
G	4,863,037			Stevens et al.		September 5, 1989	
H	4,895,242			Michel		January 23, 1990	
I	5,044,877			Constant et al.		September 3, 1991	
J	5,054,992			Hognestad et al.		October 8, 1991	
K	5,104,109			Kubo		April 14, 1992	
L	5,106,254			Tolasch et al.		April 21, 1992	
M	5,119,954			Svyatsky et al.		June 9, 1992	
N	5,183,378			Asano et al.		February 2, 1993	
O	5,239,182			Tateyama et al.		August 24, 1993	
FOREIGN PATENT DOCUMENTS							
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		Number	Kind Code ² (if known)					
	P	5,244,199		Wood		September 14, 1993		
	Q	5,266,812		Mokuo		November 30, 1993		
	R	5,273,392		Bernard, II et al.		December 28, 1993		
	S	5,360,316		O'Mara et al.		November 1, 1994		
	T	5,364,592		Lewis et al.		November 15, 1994		
	U	5,379,992		Holmes et al.		January 10, 1995		
	V	5,419,457		Ross et al.		May 30, 1995		
	W	5,535,874		Ross et al.		July 16, 1996		
	X	5,593,269		Bernard, II		January 14, 1997		
	Y	5,692,867		Kondo et al.		December 2, 1997		
	Z	5,695,071		Ross et al.		December 9, 1997		
	AA	5,713,713		Syde et al.		February 3, 1998		
	AB	5,733,093		Palm et al.		March 31, 1998		
	AC	5,826,744		Kwasniewski et al.		October 27, 1998		
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		Number	Kind Code ² (if known)				
	AD	5,829,742			Rabindran et al.	November 3, 1998	
	AE	5,897,290			Lu et al.	April 27, 1999	
	AF	5,906,468			Vander Syde et al.	May 25, 1999	
	AG	5,934,666			Rabindran et al.	August 10, 1999	
	AH	5,934,866			Redden	August 10, 1999	
	AI	5,957,448			Frank et al.	September 28, 1999	
	AJ	5,964,564			Hanon et al.	October 12, 1999	
	AK	5,971,391			Salomon et al.	October 26, 1999	
	AL	5,980,188			Ko et al.	November 9, 1999	
	AM	5,993,132			Harres et al.	November 30, 1999	
	AN	6,024,533			Redden	February 15, 2000	
	AO	6,026,967			Isaacs et al.	February 22, 2000	
	AP	6,032,946			Marshall et al.	March 7, 2000	
	AQ	6,095,316			Redden	August 1, 2000	
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		Number	Kind Code ² (if known)			
	AR	6,142,723		Kang		November 7, 2000
	AS	6,172,355	B1	Gast et al.		January 9, 2001
	AT	6,179,283	B1	Gerstenberg et al.		January 30, 2001
	AU	6,270,070	B1	Salomon et al.		August 7, 2001
	AV	6,217,020	B1	Supron et al.		April 17, 2001
	AW	6,276,509	B1	Schuster et al.		August 21, 2001
	AX	6,354,587	B1	Engarto		March 12, 2002
	AY	6,390,756	B1	Isaacs et al.		May 21, 2002
	AZ	6,431,369	B1	Boller et al.		August 13, 2002
	BA	6,454,253	B1	Tranquilla		September 24, 2002
	BB	6,503,044	B1	Enenkel		January 7, 2003
	BC	6,511,062	B1	Blackwell et al.		January 28, 2003
	BD	6,561,339	B1	Olson et al.		May 13, 2003
	BE	6,575,306	B1	Schuster et al.		June 10, 2003
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		Number	Kind Code ² (if known)		
	BF	6,585,256	B2	Blackwell et al.	July 1, 2003
	BG	6,612,565	B2	Blackwell et al.	September 2, 2003
	BH	6,618,645	B2	Bacchi et al.	September 9, 2003
	BI	6,619,647	B2	Post et al.	September 16, 2003
	BJ	6,629,691	B2	Niiyama et al.	October 7, 2003
	BK	6,679,491	B2	Luebben et al.	January 20, 2004
	BL	6,702,281	B2	Post et al.	March 9, 2004
	BM	6,719,519	B2	Liehs	April 13, 2004
	BN	2002/0003330	A1	Neri et al.	January 10, 2002
	BO	2002/0053768	A1	Blackwell et al.	May 9, 2002
	BP	2002/0067981	A1	Bonora et al.	June 6, 2002
	BQ	2002/0079254	A1	Soldavini et al.	June 27, 2002
	BR	2002/0125177	A1	Burns et al.	September 12, 2002
	BS	2002/0153654	A1	Blackwell et al.	October 24, 2002

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	BT	2003/0012637	A1	Sperger		January 16, 2003	
	BU	2003/0015834	A1	Post et al.		January 23, 2003	
	BV	2003/0015835	A1	Post et al.		January 23, 2003	
	BW	2003/0103838	A1	Liehs		June 5, 2003	
	BX	2003/0141651	A1	Berdelle-Hilge et al.		July 31, 2003	
	BY	2004/0065596	A1	Hanson		April 8, 2004	
	BZ	2004/0065597	A1	Hanson		April 8, 2004	
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